SPECTRO
AMETEK

SPECTRO**PORT LIBS** PXL01

PORTABLE OES METALS ANALYZER



When metals measurement matters:
Get fast identification, on the spot



SPECTRO**PORT LIBS**

Portable ease. Expanded elemental range. Powerful OES performance.

When testing the elemental makeup of metals in the field or at the worksite, mistakes matter. An alloy ID error at a pipeline or shipping dock can miss a bad weld, require a batch rework, or trigger a lost contract.

Example: accurate measurements of carbon (C) are critical to identifying many low-alloy steels. But handheld XRF instruments can't detect carbon. And while handheld LIBS analyzers can extend elemental coverage beyond XRF limits in some cases, their ability to measure light elements remains restricted — handling carbon only partially, and phosphorus (P) and sulfur (S) typically not at all.

The SPECTROPORT LIBS portable metals analyzer has no such limitations. It delivers reliable, on-site identification and concentration of these three key light elements, and more.

SPECTRO**PORT LIBS** — The Portable Laser-Induced Breakdown Spectroscopy (LIBS) Metals Analyzer

The SPECTROPORT LIBS expands SPECTRO's portfolio of mobile metal analyzers and bridges the gap between handheld and mobile devices.

Based on LIBS technology — a type of optical emission spectroscopy (OES) — its unique split-body design enables it to surpass the performance of handheld XRF analyzers, and even most newer LIBS handheld instruments. So it provides accurate identification, verification, and determination of concentrations of most alloys, rapidly and reliably, right on the spot.

PERFORMANCE? EASE OF USE? BOTH.

The SPECTROPORT LIBS analyzer boosts productivity via broad elemental coverage plus fast, easy measurements within just 2-6 seconds. And it consumes a fraction of the argon that traditional mobile or portable arc/spark systems require. Results: the right mix of power, portability, and usability that today's applications demand — for reliable, high-value metals identification, right in the field.

MAXIMUM MOBILITY

SPECTROPORT LIBS can be configured for utmost transportability with two replaceable batteries and an ultra-light argon cartridge — all mounted in the instrument body — plus a wheeled carrying case. Ask your SPECTRO representative about upcoming mobility offerings including a backpack frame, a docking station for small parts analysis, and a mobile workstation (using a standard argon bottle) with mains or battery power options.

A UNIQUE COMBINATION

There's no other analyzer quite like it. Its combination of portable usability for field use, competitive cost of ownership, and high-powered performance makes it a high-value solution for many metals analysis applications. And SPECTROPORT LIBS is designed with all the recognized reliability that's made SPECTRO a leader in metals analysis, with more than 50,000 spectrometers installed worldwide.









SPECTRO**PORT LIBS**

Advanced LIBS technology in a portable package

CLEARLY ADVANCED SOFTWARE

The latest generation of SPECTRO Spark Analyzer Pro software — proven on advanced benchtop lab systems — is now available for mobile instruments on SPECTROPORT LIBS. It empowers users to define testing modes and sample identification fields, quickly and intuitively.

The interface is designed for maximum ease of use. Clear, predefined views omit unnecessary selections, and guide users directly to the task at hand. Operators get straightforward options for applications such as grade identification, grade control, and pass/fail sorting — ensuring fast, confident on-site operation with minimal input necessary.

iCAL 2.0 STANDARDIZATION: READY WHEN YOU ARE

Predefined calibration packages and a SPECTRO-exclusive iCAL 2.0 diagnostics software eliminate repeated standardizations and delays. Perform a single-sample standardization (less than 5 minutes) at the start of testing, and you're set for the day. Your iCAL 2.0 diagnostics ensure stable performance throughout a typical day — regardless of most temperature shifts!

INNOVATIVE OPTICS

The ingenious SPECTROPORT LIBS split-body design incorporates two optical systems, so it can optimize for both shorter vacuum ultraviolet (VUV) and non-VUV element wavelengths. Plus iCAL 2.0 reduces the need for frequent standardizations, delivering consistent day-to-day operation across varying locations and temperatures.

TOTAL DATA MANAGEMENT

SPECTROPORT LIBS provides flexible, comprehensive control of metals data management. Its advanced tools accurately and definitively verify, record, and document complete testing results — for every field check, every incoming shipment, and every outgoing product.

GET RESULTS ANYWHERE

Receive the information you need, anywhere you need it. Via WebApp plus PC connections from WLAN/LAN to USB, SPECTROPORT LIBS offers wide options for data availability on devices throughout the worksite.

SPECTRO**PORT LIBS**

One Instrument. Many Advantages.

Every detail of the SPECTROPORT LIBS is designed to make your work easier, faster, and more reliable. From intuitive handling to robust performance, each component contributes to confident results in real-world conditions.



SPECTROPORT LIBS



TWO PROBES. TARGETED APPLICATIONS.

The SPECTROPORT LIBS system is available with two probes. The standard probe offers fast, flexible, laser-based performance for routine alloy identification in the field. A second probe option integrates ultraviolet (UV) optics for applications that require reliable measurement of carbon, sulfur, and phosphorus. Both probes also feature a built-in display, so users can run the instrument from the probe and view fast results at the point of measurement. Both probes can be operated with or without argon. Generating an argon-assisted measurement atmosphere supports more stable and sensitive analysis — and, with the UV probe, analysis of more elements, such as carbon, phosphorus, and sulfur.

THE LEADING LINE OF METALS ANALYZERS

SPECTROPORT LIBS represents a valuable addition to SPECTRO'S comprehensive suite of metals analysis instruments.

Our mobile product line also includes the flagship SPECTROTEST mobile metal analyzer, SPECTROPORT portable analyzer, and SPECTRO xSORT handheld XRF.

These complement a trio of advanced stationary metals spectrometers: our flagship SPECTROLAB S; powerful SPECTROMAXx; and affordable, entry-level SPECTROCHECK analyzers.

Whatever your choice, you can rely on quality analyzers from SPECTRO: a recognized global leader in metals analysis.

OUTSTANDING SUPPORT

Maximize SPECTRO analytical reliability and uptime with AMECARE Performance Services. Hundreds of support engineers, based in over 50 countries, are highly trained in just the relevant technologies. So they can deliver focused, fast, smart, on-the-spot service. Results: virtually uninterrupted performance plus maximum ROI over your instrument's life. Available programs include targeted training (on-site as well as ultra-convenient online), plus proactive performance maintenance, performance upgrades, applications solutions, consultation, and ongoing support.

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